

SARS-CoV-2 RDRP Protein (sf9, His)

Cat. No.:	HY-P74579
Synonyms:	SARS-CoV-2 (2019-nCoV) RNA-dependent RNA polymerase/RDRP Protein
Species:	Virus
Source:	Sf9 insect cells
Accession:	YP_009725307 (S1-Q932)
Gene ID:	43740578
Molecular Weight:	Approximately 91.3 kDa

PROPERTIES

Biological Activity	Data is not available. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 300 mM NaCl, 10% Glycerol, 22.5% Trehalose, pH 7.5.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The function of viral RNA transcription and replication is performed by a specific RNA dependent RNA polymerase (RdRp) region present in ORF1ab, including non-structure proteins NSP12 with nucleotidyltransferase activity and NSP13 with a Zinc-binding domain involved in replication and transcription. A multisubunit replication and transcription complex of NSPs arbitrate the replication of SARS-CoV-2. The catalytic subunit (Nsp12) RdRp enzyme is the core component of this complex. Nsp12 has little activity by itself and requires additional factors (Nsp7 and Nsp8) for proper functioning ^{[1][2]} .
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Caution: Product has not been fully validated for medical applications. For research use only.

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